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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/741,603	12/19/2000	Douglas G. Murray	END9-2000-0163US1	4760	
23550 7.	590 09/02/2004		EXAMINER		
HOFFMAN WARNICK & D'ALESSANDRO, LLC			REVAK, CHRISTOPHER A		
3 E-COMM SQUARE ALBANY, NY 12207			ART UNIT	PAPER NUMBER	
			2131		

DATE MAILED: 09/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application	on No.	Applicant(s)	VII			
Office Action Summary		09/741,60		MURRAY, DOUGLAS G.				
		Examiner		Art Unit				
			er A. Revak	2131				
	LING DATE of this communic			correspondence add	ress			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠ Responsi	ive to communication(s) filed	d on <u>19 December 2</u>	<u>000</u> .					
2a) ☐ This action		b)⊠ This action is n						
3)☐ Since this								
Disposition of Cla	ims							
 4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Application Paper	'S							
10) The drawing Applicant	ification is objected to by the ing(s) filed on is/are: may not request that any objectent drawing sheet(s) including or declaration is objected to	a) accepted or by ction to the drawing(s) the correction is require	be held in abeyance. Some of the drawing(s) is one of the drawing(s) is one of the drawing(s) is one of the drawing(s).	ee 37 CFR 1.85(a). objected to. See 37 CFI				
Priority under 35	U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
3) 🔯 Information Disc	nces Cited (PTO-892) person's Patent Drawing Review (P losure Statement(s) (PTO-1449 or I Date <u>see attached</u> .		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		-152)			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on December 19, 2003 is in compliance with the provisions of 37 CFR 1.97. The examiner has considered the information disclosure statement.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims currently recite of software alone and of itself. The examiner suggests amending the claims to be embodied on a computer readable medium.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Coppersmith et al, U.S. Patent 5,768,390.

As per claim 1, it is disclosed by Coppersmith et al of a method for processing a data set that comprises the steps of providing input blocks (data set) being 64 bit values (first length)(col. 3, lines 29-33 and col. 4, lines 57-59). It is implied that the key is formatted to a first length since they key is a 56 bit value (col. 4, lines 62-63). A masked key (formed by setting predetermined bits of the formatted key to zero) is used with the data set by forming an exclusive-OR result to yield an encrypted data set (col. 3, lines 33-40 and col. 4, lines 65-66). The examiner is interpreting masking a being a process of setting predetermined bits of the formatted key to zero since masking is known as a binary value used to screen out certain bits in data by using logical operators.

As per claim 2, Coppersmith et al discloses of using (replacing) the encrypted data set once the data set has been encrypted (col. 1, lines 16-22).

As per claims 3-6, it is taught by Coppersmith et al that a key is masked and ultimately encrypted (col. 3, lines 33-36). Coppersmith et al teaches of 64 bit input block values (col. 4, lines 57-59) and they are gonna have higher and lower order bits since its more than 8 bits that which would include 4 higher order bits and 4 lower order

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bits. Since masking is used, it is interpreted by the examiner that the 4 higher order bits are set to zero since masking is used as a means to screen out certain bits by using logical operators (AND operation with binary 0000 and 1111).

As per claim 7, Coppersmith et al discloses of decrypting the encrypted data set by forming an inverse exclusive-OR result of the encrypted data set with the masked key (col. 4, line 66 through col. 5, line 8 and col. 6, lines 65-67).

As per claim 8, the teachings of Coppersmith et al recite of using 64 bit input block values to yield encrypted data sets (col. 4, lines 57-59). It is interpreted that these values are in the printable ASCII range since they use binary digits of 1's and 0's to make of the bit values.

As per claim 9, it is disclosed by Coppersmith et al of a second data set with a 64 bit (second length) value that is equal to the first length which is masked (truncated)(col. 3, lines 29-44 and col. 4, lines 57-59).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pires, U.S. Patent 6,269,164

Takaragi et al, U.S. Patent 6,141,421

Wood, U.S. Patent 5,003,596

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Revak whose telephone number is 703-305-1843. The examiner can normally be reached on Monday-Friday, 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Revak

AU 2131

9/31/04

CR

August 31, 2004